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# MULTIMEDIA UNIVERSITY

## FINAL EXAMINATION

TRIMESTER 2, 2019/2020

**MID2143 – Material and Manufacturing Processes**  
(All sections / Groups)

5 MARCH 2020  
2.30 p.m – 4.30 p.m  
( 2 Hours )

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### INSTRUCTIONS TO STUDENTS

1. This Question paper consists of 3 pages with 5 Questions only.
2. **Answer FOUR (4) only from all FIVE (5) questions.** The distribution of the marks for each question is given.
3. Please write all your answers in the Answer Booklet provided.

1. (A) Describe the process of metal Die Casting and provide four (4) advantages of the process.

(13 marks)

(B) Describe of three (3) product character and give three (3) sample of product made from metal Sand Casting process.

(12 marks)

**(Total 25 marks)**

2. (A) Explain with the support of drawing, the process of plastic Rotational Molding

(8 marks)

(B) (i) List Three (3) different types of plastic joining (6 marks)

(ii) List Three (3) criteria of plastic Polycarbonate (PC) (6 marks)

(iii) List Two (2) advantages of Polyvinyl Chloride (PVC) (5 marks)

**(Total 25 marks)**

3. (A) (i) Plastic Extrusion process: list four (4) types with one (1) example each of product use the process. (8 marks)

(ii) Plastic Injection Molding: list three (3) advantages of the process. (6 marks)

(B) (i) Fiber Glass process: list four (4) example of product use this process. (4 marks)

(ii) Metal Non-Chip Forming process: list five (5) types (5 marks)

(iii) Metal Thermal Cutting process: list two (2) types (2 marks)

**(Total 25 marks)**

4. (A) (i) List three (3) type of product specifications and explain it purpose. (9 marks)

(ii) List four (4) advantages for the process of plastic Injection Blow Molding and plastic Extrusion Blow Molding. (8 marks)

(B) List two (2) criteria and two (2) product samples of each process

(i) Metal sheet Spinning process.

(ii) Metal sheet Roll Forming process. (8 marks)

**(Total 25 marks)**

5. (A) (i) List four (4) Advantages of plastic compression molding. (8 marks)

(ii) List two (2) product samples of plastic compression molding. (4 marks)

(B) (i) Describe the process with diagram the process of plastic Injection molding.

(10 marks)

(ii) List three (3) types of process for metal thermo jointing. (3 marks)

**(Total 25 marks)**

**End of Page**



